

AMENDMENT TO THE SPECIFICATION

Please amend paragraph [0029] as follows:

[0029] Referring to FIG. 2A, a sequential packet processing stage (PPS) 280 of a sequential network application is illustrated. As depicted in FIG. ~~2B~~2A, PPS 280 may be transformed into a three-pipeline stage parallel, network application pipeline 300 for execution within, for example, a D-stage processor pipeline of network processor 500 of FIG. ~~4~~8. In one embodiment, a sequential PPS of a network application is transformed into a D-pipeline stage parallel, network application through pipeline transformation, for example, as illustrated with reference to FIGS. 3A- 3C.